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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO		
10/591,089	05/21/2007	Johannes Reinschke	2005P00319WOUS	7808	
	7590 11/09/200 PPLIANCES CORPOR	EXAMINER			
INTELLECTUA 100 BOSCH BO	AL PROPERTY DEPA	ANDREWS, MICHAEL			
NEW BERN, N	= =		ART UNIT	PAPER NUMBER	
			2834		
			NOTIFICATION DATE	DELIVERY MODE	
			11/09/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

NBN-IntelProp@bshg.com

		Application	on No. Applicant(s)					
Office Action Summary		10/591,08	39	REINSCHKE ET AL.				
		Examiner		Art Unit				
		*****	ANDREWS	2834				
The M. Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHICHEVER - Extensions of tin after SIX (6) MO - If NO period for - Failure to reply v Any reply receive	ED STATUTORY PERIOD FOR F IS LONGER, FROM THE MAILII ne may be available under the provisions of 37 of NTHS from the mailing date of this communicat reply is specified above, the maximum statutory within the set or extended period for reply will, by ed by the Office later than three months after the rm adjustment. See 37 CFR 1.704(b).	NG DATE OF TH CFR 1.136(a). In no evi ion. period will apply and w y statute, cause the app	HIS COMMUNICATION ent, however, may a reply be tin Il expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1)⊠ Respon	sive to communication(s) filed on	21 Sentember 1	nna					
•	Responsive to communication(s) filed on <u>21 September 2009</u> . This action is FINAL							
<i>′</i> —	This action is FINAL . 2b) This action is non-final.							
•	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Closed	in accordance with the practice di	idei Ex parte Qu	ayle, 1935 C.D. 11, 40	03 O.G. 213.				
Disposition of C	laims							
4)⊠ Claim(s) <u>7 and 9-11</u> is/are pending in the	application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
•	5) Claim(s) is/are allowed.							
·	•							
)⊠ Claim(s) <u>7 and 9-11</u> is/are rejected.)⊡ Claim(s) is/are objected to.							
		and/or election r	aguiromont					
8) Claim(s) are subject to restriction and/or election requirement.								
Application Pape	ers							
9)⊠ The spe	cification is objected to by the Ex	aminer.						
			oted or b) objected	to by the Examine	er.			
10) The drawing(s) filed on 29 August 2006 is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11) The Oati	Tor declaration is objected to by t	ine Examiner. No	ne the attached Office	Action of lonnin	10-132.			
Priority under 35	5 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) D Notice of Drafts	ences Cited (PTO-892) sperson's Patent Drawing Review (PTO-9 closure Statement(s) (PTO/SB/08) ail Date	48)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

This Office Action is responsive to the Applicant's communication filed September 21, 2009. In virtue of this communication and the amendment concurrently filed:

claims 7-12 were previously pending;

claims 8 and 12 were cancelled by the amendment; and thus

claims 7 and 9-11 are now pending in the instant application.

Response to Arguments

1. Applicant's arguments filed September 21, 2009 have been fully considered but they are not persuasive.

The Applicant's first argument (page 8, line 21 to page 9, line 8) states that Rumswinkel does not disclose the subject matter of claim 7. However, the argument does not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections. The argument simply states that Rumswinkel does not disclose limitations that were clearly shown in the rejections of the first office action. While the amendment adds the definition of the "center position", which is disclosed by the prior art, the change is merely a statement of the neutral point in any common spring system.

The Applicant's second argument (page 9, lines 9-11) states that Rumswinkel does not disclose the subject matter originally recited in claim 8. However, the

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argument does not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections.

The Applicant's third argument (page 9, lines 14-20) states that "Zabar does not disclose that in the center position of the armature part, the point of application of the spring in the armature part is displaced axially by a predetermined distance in relation to its clamping position", as was stated in the previous rejection. The argument also alleges that Rumswinkel does not disclose this feature. Once again, no specific argument, and no evidence, is presented to support this allegation. The statement that Rumswinkel "teaches that forces from torsion springs 4 are applied to the armature part in the center position" does not contradict the original rejection.

Disclosure

2. The amendment filed September 21, 2009 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: Paragraphs [0027]-[0033] and [0035]-[0041]. These paragraphs contain subject matter not included in the original specification. Because the specification originally submitted was a translation of the priority documents, it is assumed that this matter was not contained in those documents.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 7, 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Rumswinkel (DE 1143578).

With regard to claim 7, Rumswinkel discloses a linear drive unit (see col. 1, lines 1-5 and figures 1-3) comprising:

a yoke body [1] having an exciter winding providing a magnetic field (see col. 1, lines 5-10);

a magnetic armature part [2, 3] which is set in linear oscillating motion about a center position in an axial direction (reference [20] designates the direction of movement) by the magnetic field of the winding (see col. 1, lines 10-19) the center position being the position the armature part adopts when oscillating between its maximum lateral deflection positions (defining the center position as any position the armature reaches between its maximum deflection points does not impose any additional limitation on the structure of the device); and

a spring [4] having a fixed end clamped in a fixed manner with respect to the yoke body [1] and an oscillating end coupled to the armature part [2, 3] at a point of

application and acting on the armature part in the direction of motion (see figure 1 and col. 1, lines 33-45); and

wherein in the center position of the armature part, the point of application of the spring on the armature part being displaced axially by a predetermined distance [b] in relation to its clamping position (see figure 3), and

wherein the spring is configured as a leaf spring tensioned transverse to the direction of movement of the armature part (see figure 1; the spring is tensioned vertically while the direction of motion [20] is horizontal in the drawings).

With regard to claim 9, Rumswinkel discloses the drive unit according to claim 7, as stated above, further comprising a plurality of springs [4] disposed on both sides of the center position (see figures 1-3).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rumswinkel.

With regard to claim 11, Rumswinkel discloses the drive unit according to claim 7, as stated above, except that Rumswinkel does not expressly disclose that the spring has a spring constant selected such that the characteristic frequency of the drive unit in cooperation with the total oscillating mass is lower than the frequency of the driving force. However, it has been held that if the product in a product-by-process claim is the same as, or obvious from, a product of the prior art, the claim is unpatentable even though the prior product was mad by a different process. *In re Thorpe*, 777 *F.2d* 695, 698, 227 *USPQ* 964, 966 (*Fed. Cir.* 1985). Therefore, to select the spring stiffness based on the driving force in making the drive unit of Rumswinkel would have been obvious to one of ordinary skill in the art at the time the invention was made.

8. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zabar (US 6,323,568 B1) in view of Rumswinkel.

With regard to claim 10, Zabar discloses a linear drive unit [2] (see figures 1-3) comprising:

a yoke body [10, 20] having an exciter winding [15, 25] providing a magnetic field (see col. 3, lines 12-24);

a magnetic armature part [30-34] which is set in linear oscillating motion about a center position in an axial direction by the magnetic field of the winding (see col. 3, lines 36-40):

a spring [40] having a fixed end [42, 43] clamped in a fixed manner with respect to the yoke body [10,20] and an oscillating end [41] coupled to the armature part [30-34] at a point of application and acting on the armature part [30-34] in the direction of motion (see col. 4, lines 30-36);

wherein the armature part [30] is connected to a plunger [3] of a compressor [4, 5, 6] (see col. 2, line 62 through col. 3, line 3).

Except that Zabar does not expressly disclose that, in the center position of the armature part, the point of application of the spring on the armature part being displaced axially by a predetermined distance in relation to its clamping position, and the axial displacement of the point of application of the spring on the armature part being provided in the direction away from the compressor.

Rumswinkel discloses the drive unit according to claim 7, as stated above, where the armature part is displaced axially in relation to its clamping position.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the linear drive unit of Zabar by offsetting the armature part away from the compressor as taught by Rumswinkel, for improving the efficiency thereof, since Rumswinkel teaches that such a drive unit minimizes the air gap between the magnetic components (see col. 1, lines 25-32).

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Andrews whose telephone number is (571)270-7554. The examiner can normally be reached on Monday through Thursday between the hours of 7:30 and 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Quyen Leung can be reached at (571)272-8188. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quyen Leung/ Supervisory Patent Examiner, Art Unit 2834

/M. A./ Examiner, Art Unit 2834